



GE and the Beijing 2008 Olympic Games Project Highlights

Product Description	Application	Location	Details
Water Treatment Facilities and Services			
Advanced immersed ultrafiltration membrane system	Waste water treatment	Qinghe River	<p>The Qinghe Waste Water Recycling Project is an ideal application of GE's advanced membrane technology, ensuring improved waste water treatment capability. The project can process 80,000 cubic meters of waste water a day, which will be recycled for landscaping purposes during the Games.</p> <p>GE's membrane technology is a highly reliable method for recycling water, and with its advantages of lower cost, non-chemical treatment and superior water quality, it is useful in solving Beijing's water shortage issues, producing recycled water.</p>
Nanofiltration membrane rainwater recycling and core technologies	Rainwater recycling	National Stadium	<p>GE is providing the National Stadium rainwater recycling system with nanofiltration membrane products and core technologies. The system recycles rainwater for the stadium, which is six times the size of a U.S. football stadium, using underground pools that can process up to 2,000 cubic meters of rainwater per day, which can be re-used for landscaping, fire-fighting, and cleaning—a direct way to lower the stadium's water consumption.</p> <p>The National Stadium Rainwater Recycling Project is China's first-ever implementation of this system.</p>
Nanofiltration membrane water treatment technologies	Drinking water treatment	National Stadium	<p>The National Stadium also uses GE's drinking water treatment technologies. The system will provide up to 16 tons of drinking water per hour—equal to 50,000 bottles of water (330 ml per bottle). The quality of the purified water meets the latest national drinking water standards. GE's drinking water technologies stand out from competitors' for their environmentally friendly features, energy-savings and reliability. They are also easy to maintain, and boast lower overall costs.</p>



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Reverse osmosis and ultrafiltration membrane technologies	Water recycling	Tangshan Nanpu Waste Water Reclamation Project	GE is providing reverse osmosis membrane technologies for the Tangshan Nanpu Waste Water Reclamation Project. The plant will produce over 93,000 tons of treated water each day, enough to fill 37 Olympic-sized swimming pools, and the water will support industrial operations of the Tangshan Nanbao Economic Development Zone.
Healthcare – MRI, ECG and Ultrasound			
Mac1200 ECG equipment and ECG services	Healthcare treatment	Olympic Emergency Medical Project	BOCOG has purchased 20 GE Mac1200 electrocardiogram (ECG) units and will lease an additional 288 GE Mac1200s for Games-related uses. GE is providing its ECG units and accompanying service to a total of 170 Olympic-related competitions.
ECG; MRI; ultrasound	Comprehensive healthcare monitoring	Olympic Village General Hospital	GE Healthcare is equipping the Olympic Village General Hospital, which offers comprehensive healthcare for all Olympic athletes and officials, with 308 MAC 1200 ECGs for use at Olympic venue sites. Additionally, GE Healthcare is providing the hospital with the only five ultrasound systems and two MRI systems available at the Beijing Games.
ECG	Athlete heart monitoring	Chinese Olympic Committee	The Chinese Olympic Committee (COC) is using two MAC 5500 resting ECG units, one Dash 4000 bed-side monitor and one CASE Cardiac Testing System (including the T2100 treadmill). Performing regular ECGs on Chinese Olympic athletes is an easy, non-invasive way to measure an athlete's heart beat, establish a baseline and assist physicians in detecting any possible abnormalities.
Compact ultrasound	Athlete musculoskeletal health monitoring	Spanish Olympic Committee Italian Fencing Federation French Judo Federation	These organizations are utilizing the LOGIQ i, GE Healthcare's compact ultrasound system, as first point of care on competing athletes. This tool allows clinicians to achieve early diagnosis of athletes' tendon or ligament injuries anywhere, anytime.



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Energy Power Generation Systems			
Turbine power generators	Power generation	Beijing Taiyanggong Power Plant for the Olympic Central Area	Two GE 9FA gas turbine power generators are installed in the Beijing Taiyanggong Power Plant. The plant is providing electricity to the Olympic Central Area. GE's natural gas-powered turbines are cleaner and have significant advantages over traditional coal systems.
Tri-generation units	Power generation	Jing Hui Garden Hotel	Two GE Jenbacher Tri-generation units are installed at the Jing Hui Garden Hotel, a 14-story hotel and conference center that will host media during the Games. The Jenbacher natural gas-operated tri-generation unit utilizes electrical power as well as thermal energy for heating (in winter) and cooling (in summer). The tri-generation units are highly efficient and use natural gas, a cleaner energy alternative.
Wind turbines	Power generation	Zhangbei and Shangyi Wind Farms	GE is supplying 120 wind turbines to the Zhangbei and Shangyi wind farms north of Beijing, which connect to the North China Grid and supply 180 megawatts of sustainable energy for Tianjin, Tangshan and Beijing. The wind farms can power nearly 400,000 average Chinese households per year, and are equivalent to eliminating more than 400,000 tons of carbon dioxide in China, supporting the country's goal of hosting a "green" Olympic Games.
Energy Distribution Systems			
Components; transmission protection; UPS	Power distribution	Beijing Subway Line 4	GE is supplying a variety of products to ensure stable electricity transmission to Beijing Subway Line 4.
Components; UPS	Power distribution	Olympic Digital Beijing Plaza	GE is supplying a variety of products to ensure the stability of electricity transmission at the Olympic Digital Beijing Plaza. The Olympic Digital Beijing Plaza is the information center in the Olympic Central Area that provides technology support during the Games.
Components	Power distribution	Beijing Power Supply Bureau	GE is providing substation components for the Beijing Power Supply Bureau.
Substation	Power distribution	Olympic Overlay Power Control project	GE is collaborating with the China State Power Grid to provide 73 turnkey electrical substations to more than 50 sites for the Olympic Games.



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Switchgear	Power distribution	China-Japan Friendship Hospital	GE has supplied the China-Japan Friendship Hospital's new clinic with switchgear and transformer products, and has upgraded the hospital's existing electrical power distribution facilities. The hospital has been reserved for the exclusive use of athletes and coaches during the Games.
		National Stadium	GE is providing middle and low voltage switchgear to the stadium.
Switchgear; transformers	Power distribution	Laoshan Velodrome	GE is supplying the Laoshan Velodrome, the new Track Cycling venue, with switchgear and transformer products.
		National Convention Center	GE is providing complete power distribution solution to the National Convention Center, a large complex at the Olympic Green, which houses the International Broadcasting Center (IBC) and Main Press Center (MPC).
		Beijing Power Supply Bureau	GE worked with the Beijing Power Supply Bureau to upgrade and build new energy solutions for the Games.
Switchgear; transformers; transmission protection	Power distribution	Beijing Shooting Range Hall	GE is supplying the Beijing Shooting Range Hall with a wide range of industry-leading products, including middle and low voltage switchgear, transformers and power distribution equipment.
Transformers	Power distribution	Xiehe Hospital	GE is providing transformer products for the Xiehe Hospital, which will provide services to Olympic Games officials during the Games.
		Qingdao International Sailing Center	GE is providing transformer products to the Sailing Center, which will be converted into a marina following the Games.
Transmission protection; automation systems	Power distribution	Beijing Airport Express Line	GE is providing its GE Multilin transmission protection and FANUC automation systems for the Beijing subway's Airport Express Line.
Transformers; high voltage switchgear; busway	Power distribution	Shangri-La Hotel	GE is providing transformers and high voltage switchgear products to the hotel, adjacent to the Olympic Green and home to many VIP guests during the Games.
UPS	Power distribution	Xinhua News Agency	GE is providing uninterruptible power suppliers (UPS) for the renovation of the Xinhua News Agency data center in Beijing.
UPS	Power distribution	Beijing Capital International Airport	GE is providing UPS systems and service for the Explosive Detection Systems (EDS) in Terminal 3 Phase I, Phase II and VIP building.



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Automation systems	Power distribution	Beijing Subway Line 1 Beijing Subway Line 2 Beijing Subway Batong Line Beijing Airport Express Line	GE is providing its FANUC automation systems for Beijing Subway Line 1, Line 2, Batong Line, and Airport Express Line, helping ensure reliable power distribution for the city's Olympic spectators and residents.
Security Equipment and Systems			
Building automation system	Safety and security	Beijing Subway Line 2	GE is providing its FANUC Pac Rx3i system and CIMPLICITY monitoring systems to improve automation, control and management for the Beijing Subway's Line 2 building automation system.
Explosives detection systems	Aviation security	Beijing Capital International Airport Terminal 3	GE is providing seven CTX 9000 DSi explosive detection systems (EDS) for Terminal 3 checked baggage screening. These computed tomography-based systems are the most advanced in China. In addition to the EDS, GE has provided seven uninterruptible power suppliers (UPS) to ensure continuous system operation.
Explosives detection systems	Safety and security	China Customs Homeland Security	GE is supplying Itemiser 3 advanced explosives detection systems for use by China Customs Homeland Security. This "trace" technology is able to detect very small quantities of a wide range of explosive compounds.
Fire protection systems	Fire and life safety	Beijing Subway Line 1 Olympic Green Fencing Gymnasium National Stadium Shunyi Olympic Rowing-Canoeing Park	GE is providing its fire monitoring and detection systems to help ensure safety of athletes and visitors in these facilities and areas.
Intrusion detection; access control and monitoring systems	Safety and security	Beijing University of Technology Gymnasium	GE is providing networked intrusion detection, access control and surveillance systems to ensure safety and security for this gymnasium that will host the badminton and rhythmic gymnastics events.



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Intrusion detection and monitoring systems	Safety and security	Capital Indoor Stadium Qingdao International Sailing Center China Agricultural University Gymnasium Peking University Gymnasium Beihang University Gymnasium Workers' Stadium Workers' Gymnasium Shenyang Wulihe Olympic Sport Center Shunyi Olympic Rowing-Canoeing Park	GE is providing networked intrusion detection and surveillance systems to ensure safety and security for these facilities.
Networked intrusion detection, alarm and monitoring system	Safety and security	Fengtai Softball Field	GE is providing a wide range of solutions to help ensure safety and security for this facility. These include networked intrusion protection, alarm and access control systems. These were the first integrated security control and monitoring systems put in place at an Olympic Games venue. The combined systems' uninterrupted information feed allows venue security officials to make informed decisions in the event of any unexpected incident.
Networked security monitoring systems	Aviation security	Beijing Capital International Airport Terminals 1, 2 and 3	GE is providing networked security-monitoring solutions for passenger checkpoints, people movers and the Terminal 2 baggage screening area, as well as state-of-the-art surveillance systems for the airport's automatic people movers operating on a four-kilometer line between terminals 1, 2, 3A, 3B, and 3C, including the integrated maintenance control center and all five stations.



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Networked security monitoring systems	Safety and security	National Convention Center	GE has provided its VisioWave intelligent security network solution to help ensure safety and security at this facility. VisioWave helps to manage security monitoring by integrating and automating surveillance installations for large facilities and installations.
Networked security monitoring systems	Safety and security	National Indoor Stadium	GE is providing integrated security monitoring, intrusion detection and alarm systems to help ensure safety and security for this facility. In addition, GE has installed its SYMSECURE digital monitoring system, the first time this system has been used in Asia.
Lighting Fixtures and Systems			
Lighting solutions	General lighting Stage lighting	National Stadium	<p>GE worked with the stadium's architects, Hertzog and de Meuron, to implement their high aesthetic goals and minimize energy consumption. The interior lighting design is intended to ensure that light remains as invisible as possible, while revealing the building to its visitor in a visually pleasing manner. To achieve this, fixtures are integrated within and behind structures, and compact fluorescent lighting is used to minimize energy consumption while maximizing the architectural aesthetic.</p> <p>GE is providing stage lighting to the National Stadium for the Opening and Closing Ceremonies.</p>
Lighting solutions	Sport lighting	National Aquatics Center National Indoor Stadium Olympic Green Tennis Center Beach Volleyball Ground Olympic Sports Center Stadium	<p>GE's sport lighting is featured at all of these Beijing Games competition venues. GE's technology is a solution for both the main overhead floodlights as well as the lighting required for the theatrical presentation of the sport, including the quality requirements of HDTV.</p>



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LED lights	Venue lighting	BOCOG Building	GE LED lighting is being used to illuminate the building's Beijing 2008 Olympic Games logo. GE LED lights are more energy efficient and longer lasting than conventional lighting.
Solar-powered LED street lighting fixtures	Venue lighting	Fengtai Softball Field	GE is supplying its environmentally sound solar-powered LED street lighting fixtures to Fengtai Softball Field, the site of the World Softball Championships.
Lighting solutions	Road lighting	West Second Ring Road Sanyuan Bridge Jingcheng Highway	GE is providing lighting solutions to the West Second Ring Road, Sanyuan Bridge and Jingcheng Highway. These lighting solutions will be used as route guides by Olympic delegations as well as spectator buses, regular bus services, emergency vehicles and taxis during the Games.
Lighting solutions	Indoor lighting	National Convention Center Hotel Beijing Financial Street	GE is providing indoor lighting (lamp/ballast) to these venues.
Lighting solutions	Street lighting, landscape lighting	Olympic Green	Twenty-nine (29) streets in the Olympic Green are all equipped with GE Olympia street lighting and GE is also providing landscape lighting (lamp/ballast) to the Olympic Central area.
Lighting solutions	Indoor lighting	Beijing Shooting Range Hall	GE is providing lighting solutions to the Beijing Shooting Range Hall, which was the first all-new construction project to be completed in Beijing for use as an Olympic competition venue.
Lighting solutions	General lighting, indoor lighting	Beijing Capital International Airport	GE is supplying lighting systems for the VIP apron, flight aid, T3 GTC, T3 Demo Room, and the Airbus A380 hangar—the largest aircraft maintenance hangar in Asia.
Lighting solutions	Indoor/outdoor lighting	Wukesong Baseball Field/Wukesong Indoor Stadium	More than 200,000 square meters in size, the Wukesong Sports and Culture Center houses several major venues for Olympic events. GE is providing lighting solutions for all indoor and outdoor areas of the venue.

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